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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/846,682	05/02/2001	Michael Sasges	T8466399US	2919	
	26912 7	590 03/12/2003				
	GOWLING LAFLEUR HENDERSON LLP			EXAMINER		
	COMMERCE TORONTO, O	COURT WEST, SUITE N M5L 1J3	2 4900	JOHNSTON, PHILLIP A		
	CANADA			ART UNIT	PAPER NUMBER	
				2881		
				DATE MAILED: 03/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)	
	Office Action Summary	09/846,682	SASGES, MICHAEL	
	Onice Action Summary	Examiner	Art Unit	
	The SHAU INIC DATE CO.	Phillip A Johnston	2881	
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address	
- Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to only within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from	imely filed ays will be considered timely. The mailing date of this communication.	
1)	Responsive to communication(s) filed on			
2a) <u> </u>		is action is non-final.		
3) Dispositi	Since this application is in condition for allow closed in accordance with the practice under on of Claims	ance except for formal matters in	prosecution as to the merits is 453 O.G. 213.	
4)⊠	Claim(s) 1-21 is/are pending in the application	n.		
	4a) Of the above claim(s) is/are withdra			
	Claim(s) is/are allowed.	www.comoradion.		
	Claim(s) <u>1-21</u> is/are rejected.			
	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o	or election requirement		
Application	on Papers	e oloodon roquirement.		
9)[] 1	he specification is objected to by the Examine	ır.		
10)⊠ T	he drawing(s) filed on <u>02 May 2001</u> is/are: a)[☑ accepted or b) ☐ objected to by t	he Examiner	
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).	
11) 🗌 T	he proposed drawing correction filed on	_ is: a) ☐ approved b) ☐ disappro	oved by the Examiner.	
	If approved, corrected drawings are required in rep		•	
12) 🔲 T	he oath or declaration is objected to by the Ex	aminer.		
Priority u	nder 35 U.S.C. §§ 119 and 120			
13) 🗌 🛚	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).	
	All b) Some * c) None of:	,	, , , , ,	
	1. Certified copies of the priority documents	s have been received.		
2	2. Certified copies of the priority documents	s have been received in Application	on No.	
	B. Copies of the certified copies of the prior application from the International Bure the attached detailed Office action for a list of	ity documents have been receive reau (PCT Rule 17.2(a))	ed in this National Stage	
	knowledgment is made of a claim for domestic			
a)	☐ The translation of the foreign language protknowledgment is made of a claim for domestion	visional application has been rece	eived.	
) Notice) Notice) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tition Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) eatent Application (PTO-152)	
Patent and Trac O-326 (Rev.	0.4.043	ion Summary	Part of Paper No. 6	

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Detailed Action

Claims Rejection – 35 U.S.C. 102(e)

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,057,917 to Petersen.

Petersen (917) discloses an ultraviolet sterilizing apparatus in the following Claims;

1. An ultraviolet light fluid sterilizing apparatus comprising:

at least one ultraviolet light source configured to irradiate a fluid with ultraviolet light to sterilize the fluid;

an ultraviolet light sensitive silicon carbide photodiode, said photodiode capable of generating a signal proportional to the intensity of ultraviolet light detected by said photodiode; and

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a sealed outer housing comprising an optically transparent window, said silicon carbide photodiode located inside said housing and adjacent said transparent window.

- 2. An apparatus in accordance with claim 1 further comprising a signal amplification unit coupled to said silicon carbide photodiode.
- 3. An apparatus in accordance with claim 2 wherein said signal amplification unit comprises an amplifier mounted on a printed circuit board, said printed circuit board located inside said housing.
- 4. An apparatus in accordance with claim 1 wherein said silicon carbide photodiode is sensitive to light having a wavelength ranging from about 200 to about 400 nanometers.
- An apparatus in accordance with claim 1 wherein said optically transparent window comprises sapphire or quartz.
- 6. An apparatus in accordance with claim 1 wherein said housing further comprises at least one sealable outlet to permit electrical wire connections to pass through said housing.
 - 7. An ultraviolet light fluid sterilization apparatus comprising:

a fluid chamber:

at least one ultraviolet light source configured to emit ultraviolet light into said fluid chamber; and

at least one ultraviolet light sensor comprising a silicon carbide photodiode.

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8. An apparatus in accordance with claim 7 wherein said ultraviolet light sensor further comprises:

a sealed outer housing comprising an optically transparent window, said silicon carbide photodiode located inside said housing and adjacent said transparent window; and

a signal amplification unit coupled to said silicon carbide photodiode.

- 9. An apparatus in accordance with claim 8 wherein said signal amplification unit comprises an amplifier.
- 10. An apparatus in accordance with claim 9 wherein said amplifier is mounted on a printed circuit board, said printed circuit board located inside said housing.
- 11. An apparatus in accordance with claim 7 wherein said silicon carbide photodiode is sensitive to light having a wavelength ranging from about 200 to about 400 nanometers.
- 12. An apparatus in accordance with claim 7 wherein said optically transparent window comprises sapphire or quartz.
- 13. An apparatus in accordance with claim 7 wherein said housing further comprises at least one sealable outlet to permit electrical wire connections to pass through said housing.
- 14. An apparatus in accordance with claim 13 further comprising a controller configured to receive, as input, a signal from said ultraviolet light sensor and to output a control signal to said ultraviolet light source to

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control the intensity of the ultraviolet light emitted from said ultraviolet light source.

15. A method of sterilizing a fluid utilizing an ultraviolet light fluid sterilization apparatus, the sterilization apparatus comprising a fluid chamber, at least one ultraviolet light source, and at least one ultraviolet light sensor, each ultraviolet light source configured to emit ultraviolet light into the fluid chamber, and each ultraviolet light sensor comprising a silicon carbide photodiode, said method comprising the steps of:

flowing a fluid into the chamber of the ultraviolet light sterilization apparatus;

irradiating the fluid with ultraviolet light from the at least one ultraviolet light source of the sterilization apparatus;

measuring the intensity of the ultraviolet light in the fluid chamber with the ultraviolet light sensor;

sensing an output signal from the ultraviolet light sensor with the controller; and

adjusting the level of ultraviolet light intensity in the chamber with an output signal from the controller to the light source.

16. A method in accordance with claim 15 wherein each ultraviolet light sensor further comprises:

a sealed outer housing comprising an optically transparent window, the silicon carbide photodiode located inside the housing and adjacent the

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transparent window; and

a signal amplification unit.

- 17. A method in accordance with claim 16 wherein signal amplification unit comprises an amplifier mounted on a printed circuit board, the printed circuit board located inside the housing.
- 18. A method in accordance with claim 16 wherein the silicon carbide photodiode is sensitive to light having a wavelength ranging from about 200 to about 400 nanometers.
- 19. A method in accordance with claim 16 wherein the optically transparent window comprises sapphire or quartz.
- 20. A method in accordance with claim 16 wherein said housing further comprises at least one sealable outlet to permit electrical wire connections to pass through said housing.
- 21. An apparatus in accordance with claim 1 further comprising a fluid chamber having an interior, said sealed outer housing coupled to said fluid chamber with said transparent window in optical cooperation with said interior of said fluid chamber, and said at least one ultraviolet light source configured to emit ultraviolet light into said fluid chamber.

See Column 4, line 16-67; Column 5, line 1-33; and Column 6, line 1-31.

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Conclusion

3. Any inquiry concerning this communication or earlier communications should be directed to Phillip Johnston whose telephone number is (703) 305-7022. The examiner can normally be reached on Monday-Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor John Lee can be reached at (703) 308-4116. The fax phone numbers are (703) 872-9318 for regular response activity, and (703) 872-9319 for after-final responses. In addition the customer service fax number is (703) 872-9317.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

PJ

March 5, 2003

SUPERVISORY PATENT TYPE
TECHNOLOGY CENTER 2800